

The following amendments and remarks are submitted in connection with the above-identified patent application:

### IN THE CLAIMS

1. (currently amended) A foundry binder composition comprising as a mixture:
  - (a) an organic foundry binder having at least one component; and
  - (b) an effective amount of a ~~divalent sulfur compound~~ thiuram where said ~~divalent sulfur compound~~ thiuram is present in at least one component of the binder.
2. (canceled)
3. (currently amended) The foundry binder composition of claim 2 1 wherein the organic binder is selected from the group consisting of phenolic-urethane binders, phenolic shell binders, aqueous alkaline phenolic resole binders, acrylic/epoxy binders, and furan binders.
4. (original) The foundry binder composition of claim 3 wherein the organic binder is a cold-box binder.
5. (original) The foundry binder composition of claim 4 wherein in the cold-box binder is a phenolic urethane binder.
6. (currently amended) The foundry binder composition of claim 5 wherein the ~~divalent sulfur compound~~ thiuram is dispersed in a liquid dispersant before mixing said ~~divalent sulfur compound~~ thiuram with (a) or (b), and the ~~divalent metal compound~~ thiuram is

selected from the group consisting of tetrabutyl thiuram disulfide, tetraethyl thiuram disulfide, tetramethyl thiuram disulfide, tertbutyl thiuram disulfide and mixtures thereof.

7. (currently amended) A foundry mix comprising:

- (a) a major amount of a foundry aggregate;
- (b) an effective binding amount of an organic foundry binder having at least component; and
- (c) an effective amount of a ~~divalent sulfur compound~~ thiuram where said ~~divalent sulfur compound~~ thiuram that is present in (a), ~~at least one component of~~ (b), or both.

8. (canceled)

9. (currently amended) The foundry mix of claim 8 7 wherein the organic binder of the foundry mix is selected from the group consisting of phenolic-urethane binders, phenolic shell binders, aqueous alkaline phenolic resole binders, acrylic epoxy binders, and furan binders.

10. (original) The foundry mix of claim 9 where the organic binder is a cold-box binder.

11. (original) The foundry mix of claim 10 wherein the cold-box binder is a phenolic urethane binder.

12. The foundry mix of claim 11 wherein the ~~divalent sulfur compound~~ thiuram is dispersed in a liquid dispersant before mixing said ~~divalent sulfur compound~~ thiuram with (a) or (b), and the ~~divalent metal compound~~ thiuram is selected from the group consisting of

tetrabutyl thiuram disulfide, tetraethyl thiuram disulfide, tetramethyl thiuram disulfide, tertbutyl thiuram disulfide and mixtures thereof.

13. (currently amended) A cold-box process for preparing foundry shapes which comprises:

- (A) introducing a foundry mix of claim 7, 8, 9, 10, 11, or 12 into a pattern to prepare an uncured foundry shape;
- (B) contacting said uncured foundry shape prepared by (A) with a vaporous curing catalyst;
- (C) allowing said foundry shape resulting from (B) to cure until said shape becomes handleable; and
- (D) removing said foundry shape from the pattern.

14. (original) The process of claim 13 wherein the foundry shape is an internal core.

15. (original) The process of claim 14 wherein the binder is a phenolic urethane binder.

16. (original) A foundry shape prepared in accordance with claims 15.

17. (original) A process for casting a metal part which comprises:

- (A) inserting a foundry shape of claim 16 into a casting assembly;
- (B) pouring metal, while in the liquid state, into said casting assembly;
- (C) allowing said metal to cool and solidify; and

(D) then separating the cast metal part from the casting assembly.

18. (original) The process of claim 17 wherein the metal is aluminum.

19. (original) The process of claim 18 wherein the foundry shape is an internal core.

20. (original) A metal part prepared in accordance with claim 19.

21. (canceled)

22. (canceled)

23. (canceled)

24. (canceled)

25. (canceled)

26. (canceled)